

435 | 691

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cons.aa	G G	G V	A K	E
hTGFBR-II	LDTLVGKGRFAEVYKAKLKQNTSEQFETVAVKIFPYDHYASWKDRKDIFSDINLJHENILOF			
mActR-IIB	LLEIKARGRGFCVWKAQLMN-----DFVAVKIKPLQDKQSWSEREI	DF	PGM	KHENILOF
mActR-II	LLEVKGARGRGFCVWKAQLLN-----EYVAVKIFPIQDKQSWSQNEYEVYSI	EY	PGM	KHENILOF
daf-1	LTCRVGSGRFGNVSRGDYRG-----EAVAVKFNAIDEPAFHKEIEIFETRMLRHPNVLRY			
subdomains	I		II	III
				IV

hTGFBR-II	LTAEEERKTELGKQYWLITAFHAKGNLQEYLTRHVISWEDLRNVGSSLARGLSHLHS	DHTP-C
mActR-IIB	IAAEKRGNSLEVELWLITAFHDKGSLIDYI	LKGNI ITWNE
mActR-II	IGAEKRGTSVDLWLITAFHDKGSLSDFLKANVSWN	ELCHVAETMSRGISY
daf-1	IGSDRVDTGFVTELWLVI	EYHPSGSLHD
subdomains	V	LENTVNIEYYNLMRSTA
		GLAFLHNQIGGSK
		VI-A

cons.aa	DLK	N	DFG	
hTGFBR-II	GRPKMPIVHRDLKSSNILVKNDLT	CC	GPySSVDDLANSQVGTARYMAP	
mActR-IIB	GEGHKPSIAHRDFKSKNVL	LLKSDLT	EPGKPPGD THGQVGTRRYMAP	
mActR-II	DGHKPAI	SHRDIKSKNVL	QNLNTACIADFG	LALKF EAGKSAGD THGQVGTRRYMAP
daf-1	ESNKPA	MAHRDIKSKNIMYKNDLTCAI	GDLGLSLSKPEDAASDI	IAN ENYKCGTVRYLAP
subdomains	VI-B		VII	
			VIII	

Fig. 1

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a.a C C E G N M C
5' GCGGATCCTGTTGTGAAGGNAATATGTG 3' Fig. 2A
BAMHI C C G C

a.a V A V K I F
5' GCGGATCCGTCGCAGTCAAAATTT 3' Fig. 2B
BamHI G C G G C
T T T A

a.a R D I K S K N
5' GCGGATCCGCGATATTAAAAGCAA 3' Fig. 2C
BAMHI A C C GTCT
G A

a.a E P A M Y
5' CGGAATTCTGGTGCCATATA Fig. 2D
EcoRI G G G
A A

M C G A A K L [A] F A V F L I S C S S C A I L G R A C C R - 11
 M T A P M A [A] L A L L M C S [] C A G S C R G E A C C R - 118
 M C R C L L R C L W P L H I V L W T R I A S T I P P H V Q X S V H M D M I V T D N H C A V T B R - 11
 M E A A Y A A P R P R [] L U L V L A A A T B R - 1 / A L K - S
 M T L G S P R K C U L P R U L V L A A A T B R - 1 / A L K - 1
 M Y O G V M I T L M I A L P S S P A L K - 2
 M A E S A C A S S F F P L V Y V L L A L K - 4
 M L L R S S C K L N V G T K K E A L K - 6
 M T Q L Y I Y I R L L G A Y L F I I S R V Q C Q N L D M A E

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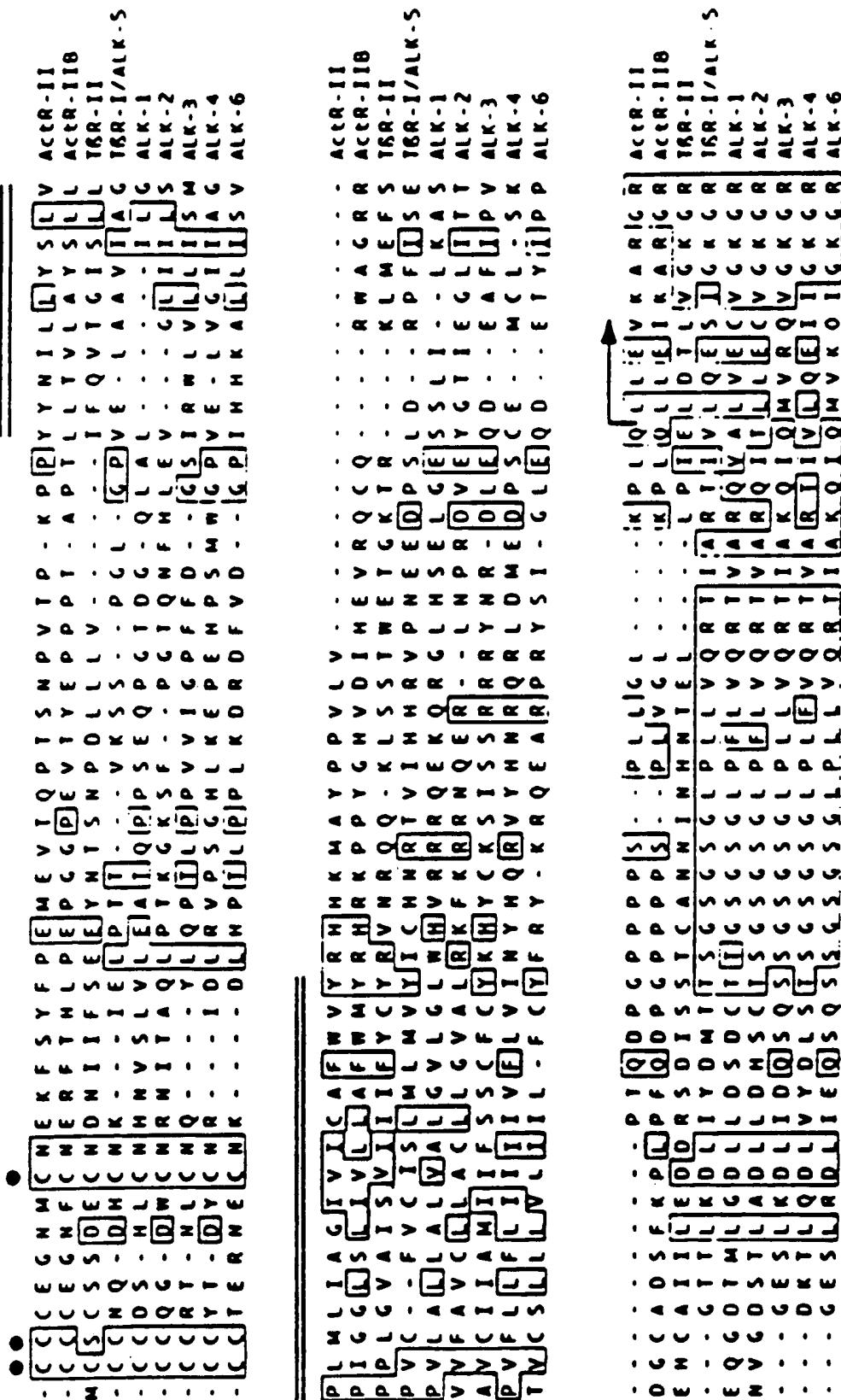


Fig. 3 contd.

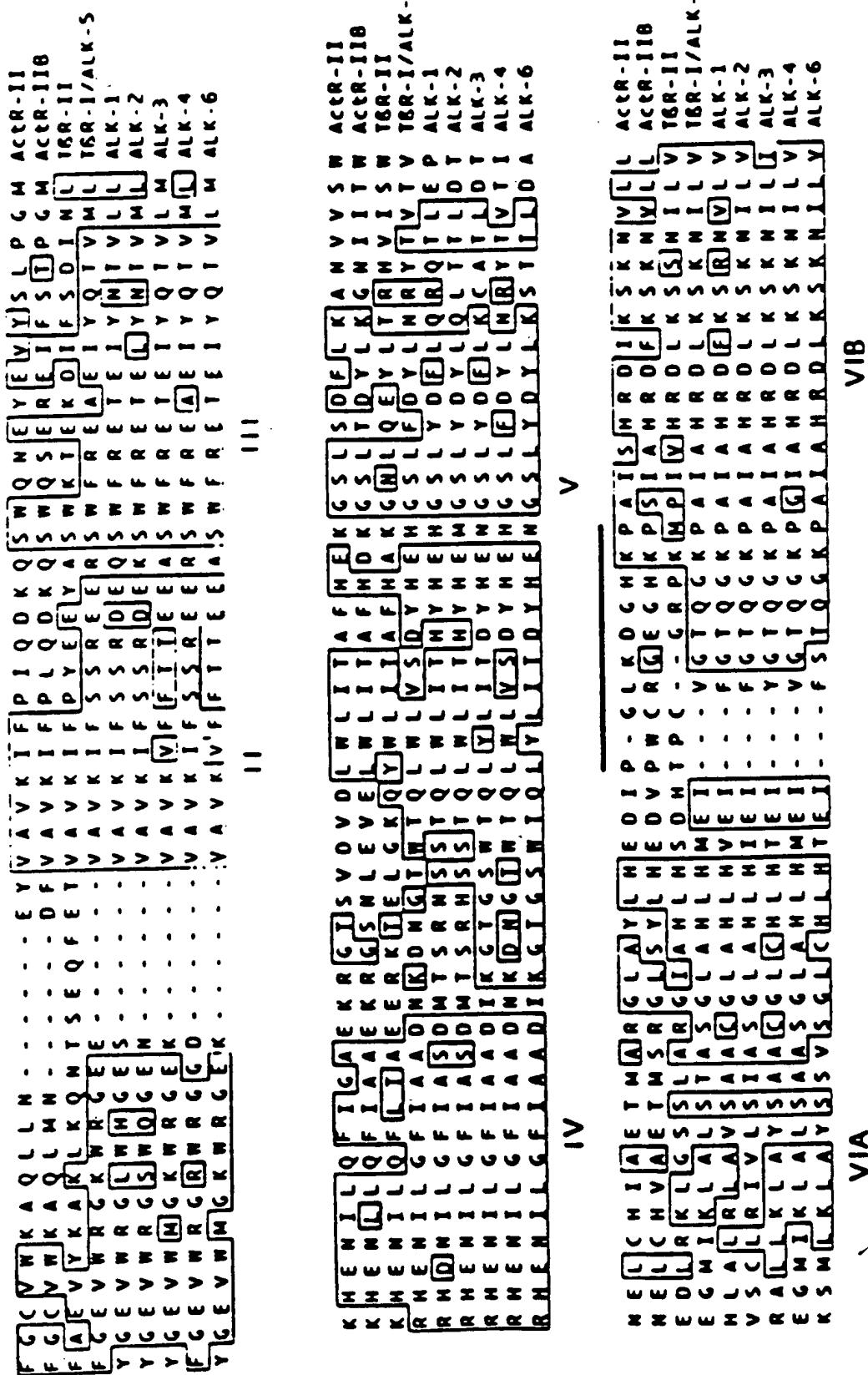


Fig. 3 contd.

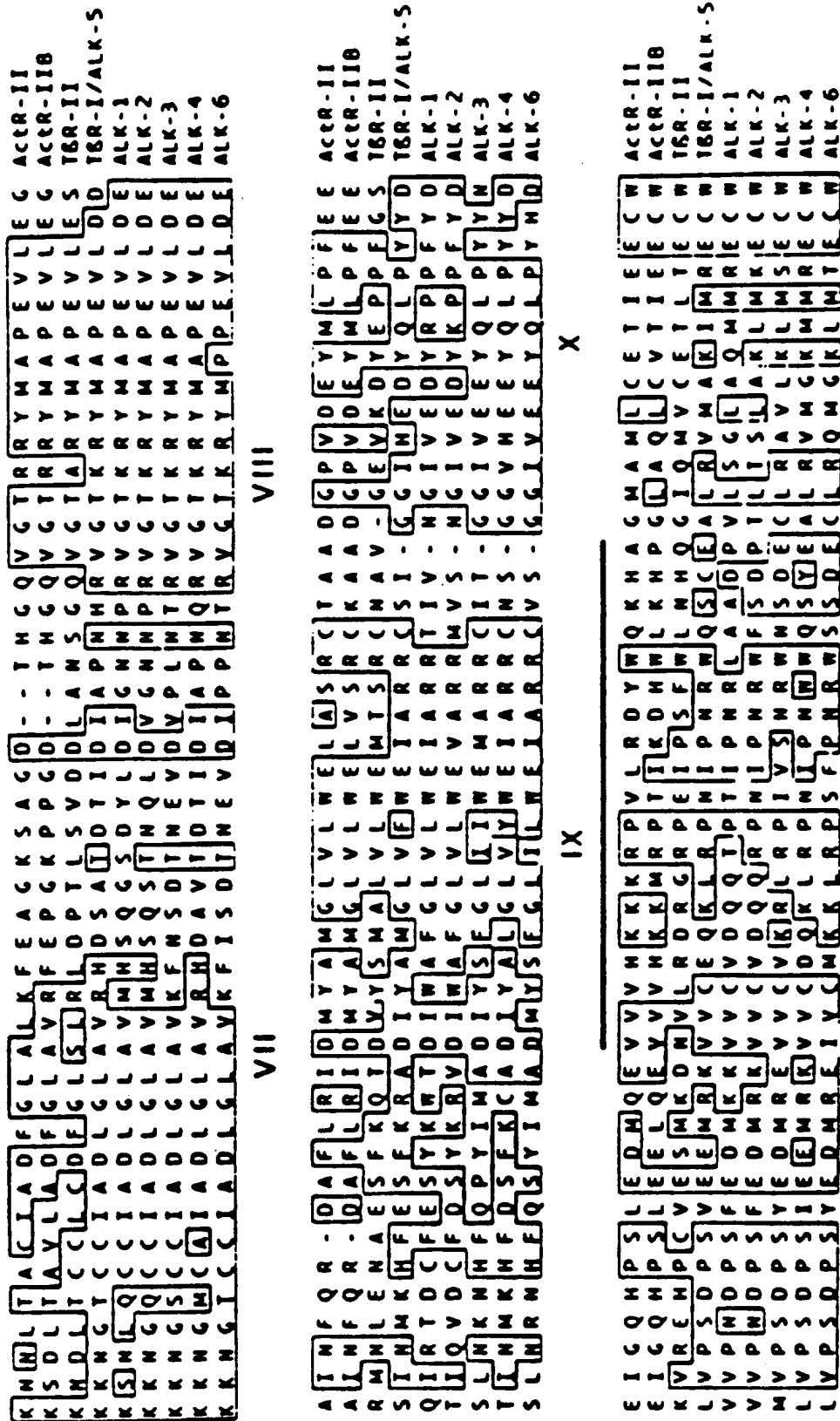


Fig. 3 contd.

Act R-118
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Act R-7
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Act R-5
Act R-4
Act R-3
Act R-2
Act R-1
Act R-0

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Fig. 3 contd.

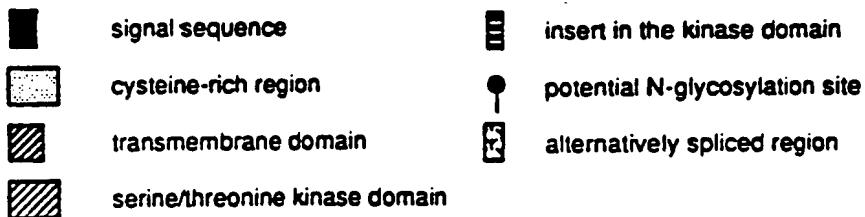
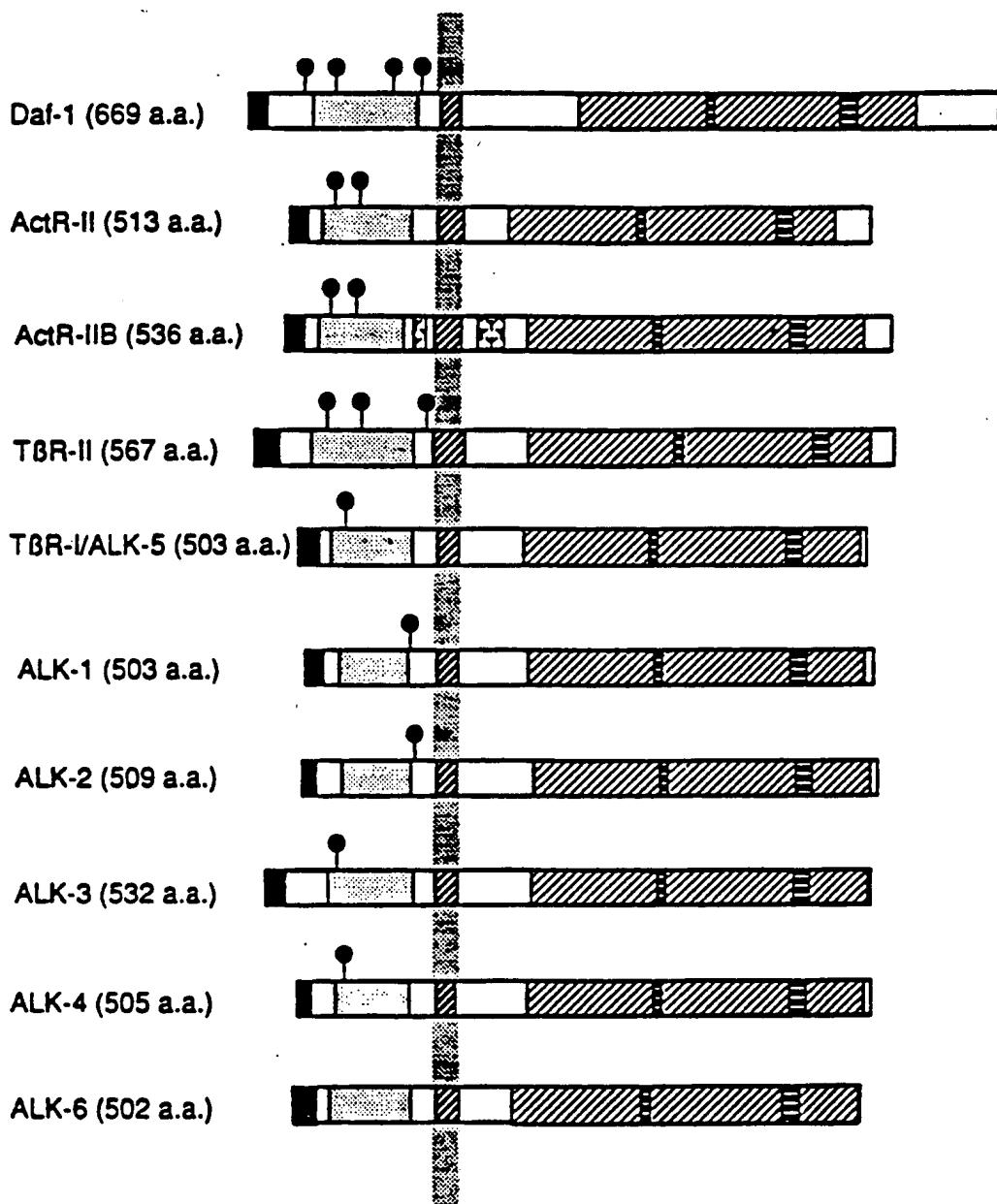


Fig. 4

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Fig.

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ALK-2	ALK-3	ALK-4	ALK-5	ActR-II	ActR-IIB	TBR-II	daf-1	
79	60	61	63	40	40	37	39	ALK-1
	63	64	65	41	39	37	39	ALK-2
		63	65	41	38	37	39	ALK-3
			90	41	40	39	42	ALK-4
				42	40	41	43	ALK-5
					78	48	35	ActR-II
						47	32	ActR-IIB
							34	TBR-II

Fig. 6

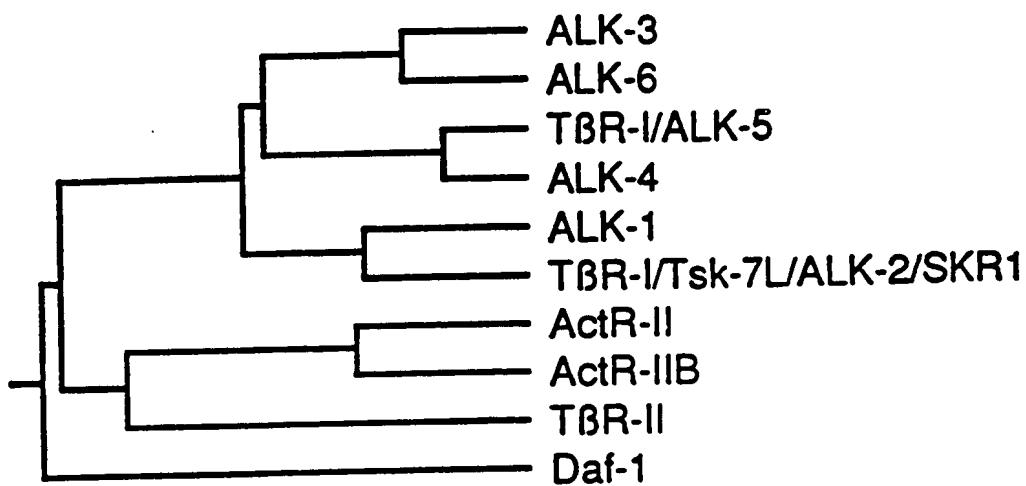


Fig. 7